

MOLDING DIE, HOLLOW CERAMIC MONOLITHIC SUPPORT AND
METHOD OF MANUFACTURING THE SAME, AND
CATALYTIC CONVERTER SYSTEM

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ABSTRACT OF THE DISCLOSURE

10 The present invention provides a hollow ceramic
monolithic support that has high isostatic strength, a
method of manufacturing the hollow ceramic monolithic
support at low cost, and a molding die therefor.

15 According to the present invention, the hollow
ceramic monolithic support comprises a main body 82 that
has a multitude of cells 45 surrounded by ribs 84 of a
honeycomb structure, the hollow space 80 made at the
center of the main body 82 so as to penetrate
20 therethrough in the longitudinal direction, the outer
periphery skin portion 81 that covers the outer
peripheral surface of the main body 82 and the inner
periphery skin portion 83 that covers the inner
peripheral surface of the main body 82. Ribs 84 located
25 in a layer in a range from one to 10 cells from the inner
periphery skin portion 83 are made to form high strength
portions S2 that have higher strengths than the other
portion P of the ribs located outside thereof.